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<input type="checkbox"/>	L113	(L106 or L107 or L108 or L109 or L110) and L100	13
<input type="checkbox"/>	L112	(L106 or L107 or L108 or L109 or L110) and L103	0
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<input type="checkbox"/>	L107	(707/104.1).ccls.	7003
<input type="checkbox"/>	L106	(707/2).ccls.	3343
<input type="checkbox"/>	L105	((coherency adj1 (manager or host)) same (volume adj1 (manager or host)) same (file or files or folder or folders) same (metadata or (meta adj1 data) or meta-data) same version\$)	3
<input type="checkbox"/>	L104	((coherency adj1 (manager or host)) near (volume adj1 (manager or host)) near (file or files or folder or folders) near (metadata or (meta adj1 data) or meta-data))	0
<input type="checkbox"/>	L103	((coherency adj1 (manager or host)) near (volume adj1 (manager or host)))	6
<input type="checkbox"/>	L102	((volume adj1 (manager or manager)) near (folder or folders or file or files) near (metadata or (meta adj1 data) or meta-data))	0
<input type="checkbox"/>	L101	((volume near (manager or manager)) near (folder or folders or file or files) near (metadata or (meta adj1 data) or meta-data))	0
<input type="checkbox"/>	L100	((volume near (manager or manager)) same (folder or folders or file or files) same (metadata or (meta adj1 data) or meta-data))	93
<input type="checkbox"/>	L99	(L97 and L98)	18

10/432,105

┐	L98	(volume near (manager or manager))	1443
┐	L97	(coherency near (manager or host))	54
┐	L96	(volume near manager)	1443
┐	L95	((offline or off-line or (off adj1 line)) near memor\$)	405
		<i>DB=USPT; PLUR=NO; OP=OR</i>	
┐	L94	7062764.pn.	1
		<i>DB=PGPB,USPT,USOC; PLUR=NO; OP=OR</i>	
┐	L93	L89 and ((search\$ or quer\$ or inquire\$ or enquiry\$ or question\$ or request\$) near (file or files or folder or folders))	57
┐	L92	L88 and ((search\$ or quer\$ or inquire\$ or enquiry\$ or question\$ or request\$) near (file or files or folder or folders))	11
┐	L91	L87 and ((search\$ or quer\$ or inquire\$ or enquiry\$ or question\$ or request\$) near (file or files or folder or folders))	127
┐	L90	L86 and ((search\$ or quer\$ or inquire\$ or enquiry\$ or question\$ or request\$) near (file or files or folder or folders))	38
┐	L89	L57 and interfac\$.ab.	147
┐	L88	L56 and interfac\$.ab.	35
┐	L87	L54 and interfac\$.ab.	229
┐	L86	L53 and interfac\$.ab.	63
┐	L85	L83 and (file or files or folder or folders)	1
┐	L84	L83 and (file or files or folder or folders)	1
┐	L83	6952698.pn.	1
┐	L82	(volume adj1 manager).ab.	47
┐	L81	L73 and (file or files or folder or folders).ti.	4
┐	L80	L73 and (file or files or folder or folders).ab.	26
┐	L79	L72 and (file or files or folder or folders).ab.	1
┐	L78	L72 and (file or files or folder or folders).ti.	0
┐	L77	L71 and (file or files or folder or folders).ti.	13
┐	L76	L71 and (file or files or folder or folders).ab.	23
┐	L75	L70 and (file or files or folder or folders).ab.	126
┐	L74	L70 and (file or files or folder or folders).ti.	37
┐	L73	L67 and L69	47
┐	L72	L67 and L68	4
┐	L71	L66 and L68	72
┐	L70	L66 and L69	294
┐	L69	volume.ab.	78563
┐	L68	volume.ti.	8381
┐	L67	((volume near manag\$) near (file or files or folder or folders))	137
┐	L66	((volume near manag\$) with (file or files or folder or folders))	1077

┐	L65	L64 and coherency.ab.	30
┐	L64	volume.ab.	78563
┐	L63	L58 and (coherency adj1 manager)	17
┐	L62	L57	1273
┐	L61	L56	295
┐	L60	L54	2052
┐	L59	L53 and L58	42
┐	L58	(volume adj1 manager\$)	1399
┐	L57	L52 and (metadata or meta-data or (meta adj1 data)).ab.	1273
┐	L56	L52 and (metadata or meta-data or (meta adj1 data)).ti.	295
┐	L55	(metadata or meta-data or (meta adj1 data)).ti.	1055
┐	L54	L52 and (file or files or folder or folders).ab.	2052
┐	L53	L52 and (file or files or folder or folders).ti.	824
┐	L52	((metadata or meta-data or (meta adj1 data)) near (file or files or folder or folders))	3992
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>			
┐	L51	(33 or L49 or L50) and ((volume adj1 manager) with volume with(file or files or folder or folders) with (metadata or (meta adj1 data) or meta-data))	5
┐	L50	ORR-DAVID.in.	11
┐	L49	KWASNY-DAVID-M.in.	57
┐	L48	WENG-JIAN-GANG.in.	27
┐	L47	(L42 or L43 or L44 or L44 or L45 or L46) and ((volume adj1 manager) with volume with(file or files or folder or folders) with (metadata or (meta adj1 data) or meta-data))	7
┐	L46	(707/201).ccls.	1773
┐	L45	(707/205).ccls.	1279
┐	L44	(707/100).ccls.	5965
┐	L43	(707/102).ccls.	5828
┐	L42	(707/1).ccls.	6344
┐	L41	L40 and ((gui or (graphical adj1 user adj1 interfac\$) or view\$ or display\$) with histor\$)	8
┐	L40	((volume adj1 manager) with volume with(file or files or folder or folders) with (metadata or (meta adj1 data) or meta-data))	26
┐	L39	((volume adj1 manager) near volume near(file or files or folder or folders) near (gui or (graphical adj1 user adj1 interfac\$) or view\$ or display\$) near (metadata or (meta adj1 data) or meta-data))	0
┐	L38	((volume adj1 manager) with (file or files or folder or folders) with (gui or (graphical adj1 user adj1 interfac\$) or view\$ or display\$) with (metadata or (meta adj1 data) or meta-data))	0
┐	L37	((volume adj1 manager) with (file or files or folder or folders) with (volume\$ or size or block) with (gui or (graphical adj1 user adj1 interfac\$) or view\$ or	0

	display\$) with (metadata or (meta adj1 data) or meta-data))	
┐ L36	((volume adj1 manager) with (file or files or folder or folders) with (volume\$ or size or block) with (gui or (graphical adj1 user adj1 interfac\$) or view\$ or display\$) with (metadata or (meta adj1 data) or meta-data) with histor\$)	0
	<i>DB=PGPB,USPT,USOC; PLUR=NO; OP=OR</i>	
┐ L35	L34 and histor\$.ab.	2
┐ L34	L33 and (metadata or (meta adj1 data) or meta-data)	11
┐ L33	L32 and (file or files or folder or folders).ab.	20
┐ L32	(volume near manager).ab.	50
	<i>DB=USPT; PLUR=NO; OP=OR</i>	
┐ L31	(volume near manager).ab.	22
	<i>DB=PGPB,USPT,USOC; PLUR=NO; OP=OR</i>	
┐ L30	L16 and history	1
┐ L29	L28 and history	1
┐ L28	(L22 or L23 or L24 or L25 or L26) and ((file or files or folder or folders) with (metadata or (meta adj1 data) or meta-data) with (histor\$ or audit\$ or timestamp or (time adj1 stamp\$) or time-stamp) with (view\$ or gui or (graphical adj1 user adj1 interfac\$) or interfac\$ or display\$))	1
┐ L27	(L22 or L23 or L24 or L25 or L26) and ((file or files or folder or folders) with (metadata or (meta adj1 data) or meta-data) with (histor\$ or audit\$ or timestamp or (time adj1 stamp\$) or time-stamp))	35
┐ L26	L22 and volume.ab.	99
┐ L25	L22 and volume.ti.	25
┐ L24	L22 and (file or files or foldr or folders).ab.	114
┐ L23	L22 and (file or files or foldr or folders).ti.	44
┐ L22	L21 and ((file or files or foldr or folders) with (display\$ or (graphical adj1 user adj1 interfac\$) or interfac\$ or view\$))	261
┐ L21	L20 and (volume near manager)	350
┐ L20	(volume near (folder or folders or file or files))	3029
┐ L19	L16 and size\$	1
┐ L18	L16 and audio\$	0
┐ L17	L16 and volume\$	1
┐ L16	20040133588.pn.	1
┐ L15	L1 and history	1
┐ L14	L13 and history	1
┐ L13	(L7 or L8 or L9 or L10 or L11) and ((file or files or folder or folders) with (metadata or (meta adj1 data) or meta-data) with (histor\$ or audit\$ or timestamp or (time adj1 stamp\$) or time-stamp) with (view\$ or gui or (graphical adj1 user adj1 interfac\$) or interfac\$ or display\$))	1
┐ L12	(L7 or L8 or L9 or L10 or L11) and ((file or files or folder or folders) with (metadata or (meta adj1 data) or meta-data) with (histor\$ or audit\$ or timestamp or (time adj1 stamp\$) or time-stamp))	35

┐	L11	L7 and volume.ab.	99
┐	L10	L7 and volume.ti.	25
┐	L9	L7 and (file or files or foldr or folders).ab.	114
┐	L8	L7 and (file or files or foldr or folders).ti.	44
┐	L7	L6 and ((file or files or foldr or folders) with (display\$ or (graphical adj1 user adj1 interfac\$) or interfac\$ or view\$))	261
┐	L6	L5 and (volume near manager)	350
┐	L5	(volume near (folder or folders or file or files))	3029
┐	L4	L1 and size\$	1
┐	L3	L1 and audio\$	0
┐	L2	L1 and volume\$	1
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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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1. Parallel volume rendering on a network of workstations

Giersten, C.; Petersen, J.;

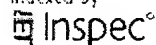
[Computer Graphics and Applications, IEEE](#)

Volume 13, Issue 6, Nov. 1993 Page(s):16 - 23

Digital Object Identifier 10.1109/38.252548

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10/632,105

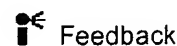

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1 [Geometric modeling based on polygonal meshes](#)

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[Video files associated with this course are available from the citation page](#)

Mario Botsch, Mark Pauly, Leif Kobbelt, Pierre Alliez, Bruno Lévy, Stephan Bischoff, Christian Rössl

August 2007 **SIGGRAPH '07: ACM SIGGRAPH 2007 courses**

Publisher: ACM

 Full text available: pdf(44.53 MB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#)

In the last years triangle meshes have become increasingly popular and are nowadays intensively used in many different areas of computer graphics and geometry processing. In classical CAGD irregular triangle meshes developed into a valuable alternative ...

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2 [On incremental file system development](#)

 Erez Zadok, Rakesh Iyer, Nikolai Joukov, Gopalan Sivathanu, Charles P. Wright
 May 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 2

Publisher: ACM

 Full text available: pdf(260.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Developing file systems from scratch is difficult and error prone. Using layered, or stackable, file systems is a powerful technique to incrementally extend the functionality of existing file systems on commodity OSes at runtime. In this article, we ...

Keywords: I/O manager, IRP, Layered file systems, VFS, extensibility, stackable file systems, vnode

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3 [A survey and analysis of Electronic Healthcare Record standards](#)

 Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci
 December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

Publisher: ACM

 Full text available: pdf(844.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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10/632,108

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for ...


Keywords: Electronic Healthcare Record standards, eHealth, interoperability

4 Synchronization and recovery in a client-server storage system

E. Panagos, A. Biliris

August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(205.25 KB) Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

Client-server object-oriented database management systems differ significantly from traditional centralized systems in terms of their architecture and the applications they target. In this paper, we present the client-server architecture of the EOS storage ...

Keywords: Checkpoint, Client-server architecture, Object management, Concurrency control, Locking, Logging, Recovery, Transaction management


5 Adaptive, fine-grained sharing in a client-server OODBMS: a callback-based approach



Markos Zaharioudakis, Michael J. Carey, Michael J. Franklin

December 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 4

Publisher: ACM

Full text available:  pdf(441.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

For reasons of simplicity and communication efficiency, a number of existing object-oriented database management systems are based on page server architectures; data pages are their minimum unit of transfer and client caching. Despite their efficiency, ...

Keywords: cache coherency, cache consistency, client-server databased, fine-grained sharing, object-oriented databases, performance analysis


6 The evolution of Coda



M. Satyanarayanan

May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2

Publisher: ACM

Full text available:  pdf(441.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected

operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

7 Kizamu: a system for sculpting digital characters



Ronald N. Perry, Sarah F. Frisken

August 2001 **SIGGRAPH '01**: Proceedings of the 28th annual conference on Computer graphics and interactive techniques

Publisher: ACM

Full text available: pdf(4.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper presents Kizamu, a computer-based sculpting system for creating digital characters for the entertainment industry. Kizamu incorporates a blend of new algorithms, significant technical advances, and novel user interaction paradigms into a system ...

Keywords: ADFs, character design, digital sculpting, distance fields, graphics systems, rendering, triangulation, volume modeling

8 Improving the reliability of commodity operating systems



Michael M. Swift, Brian N. Bershad, Henry M. Levy

February 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1

Publisher: ACM

Full text available: pdf(459.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Despite decades of research in extensible operating system technology, extensions such as device drivers remain a significant cause of system failures. In Windows XP, for example, drivers account for 85&percent; of recently reported failures. This article ...

Keywords: I/O, Recovery, device drivers, protection, virtual memory

9 ARIES/IM: an efficient and high concurrency index management method using write-ahead logging



C. Mohan, Frank Levine

June 1992 **SIGMOD '92**: Proceedings of the 1992 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: pdf(1.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper provides a comprehensive treatment of index management in transaction systems. We present a method, called ARIESIIM (Algorithm for Recovery and Isolation Exploiting Semantics for Index Management), for concurrency control and ...

10 Improving the reliability of commodity operating systems

Michael M. Swift, Brian N. Bershad, Henry M. Levy



December 2003 **SOSP '03: ACM SIGOPS Operating Systems Review**, Volume 37 Issue 5

Publisher: ACM

Full text available: pdf(262.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Despite decades of research in extensible operating system technology, extensions such as device drivers remain a significant cause of system failures. In Windows XP, for example, drivers account for 85% of recently reported failures. This paper describes ...

Keywords: I/O, device drivers, protection, recovery, virtual memory

11 Evaluating a new approach to strong web cache consistency with snapshots of collected content



Mikhail Mikhailov, Craig E. Wills

May 2003 **WWW '03: Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM

Full text available: pdf(115.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The problem of Web cache consistency continues to be an important one. Current Web caches use heuristic-based policies for determining the freshness of cached objects, often forcing content providers to unnecessarily mark their content as uncacheable ...

Keywords: cache consistency, change characteristics, collected content, object composition, object relationships, server invalidation, web caching

12 Real-time shading



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes**

Publisher: ACM

Full text available: pdf(7.39 MB) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering ...

13 EnsemBlue: integrating distributed storage and consumer electronics

Daniel Peek, Jason Flinn

November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation**

Publisher: USENIX Association

Full text available: pdf(399.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

EnsemBlue is a distributed file system for personal multimedia that incorporates both general-purpose computers and consumer electronic devices (CEDs). Ensem-Blue leverages the capabilities of a few general-purpose computers to make CEDs first class ...

14 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment



Barron C. Housel, George Samaras, David B. Lindquist

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: ACM

Full text available: [pdf\(338.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal ...

15 Code Generation and Optimization for Transactional Memory Constructs in an Unmanaged Language

Cheng Wang, Wei-Yu Chen, Youfeng Wu, Bratin Saha, Ali-Reza Adl-Tabatabai

March 2007 **CGO '07: Proceedings of the International Symposium on Code Generation and Optimization**

Publisher: IEEE Computer Society

Full text available: [pdf\(365.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Transactional memory offers significant advantages for concurrency control compared to locks. This paper presents the design and implementation of transactional memory constructs in an unmanaged language. Unmanaged languages pose a unique set of challenges ...

16 MPI performance analysis tools on Blue Gene/L



I-Hsin Chung, Robert E. Walkup, Hui-Fang Wen, Hao Yu

November 2006 **SC '06: Proceedings of the 2006 ACM/IEEE conference on Supercomputing**

Publisher: ACM

Full text available: [pdf\(943.81 KB\)](#) [html\(2.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Applications on today's massively parallel supercomputers are often guided with performance analysis tools toward scalable performance on thousands of processors. However, conventional tools for parallel performance analysis have serious problems due ...

Keywords: performance tool, performance tuning

17 ARIES/IM: an efficient and high concurrency index management method using write-ahead logging



C. Mohan, Frank Levine

June 1992 **SIGMOD '92: ACM SIGMOD Record**, Volume 21 Issue 2

Publisher: ACM

Additional Information: [full citation](#), [abstract](#), [references](#), [cited](#)

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This paper provides a comprehensive treatment of index management in transaction systems. We present a method, called ARIESIIM (Algorithm for Recovery and Isolation Exploiting Semantics for Index Management), for concurrency control and ...


18 [Improving the reliability of commodity operating systems](#)



Michael M. Swift, Brian N. Bershad, Henry M. Levy

October 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM

Full text available:  [pdf\(262.78 KB\)](#)

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Despite decades of research in extensible operating system technology, extensions such as device drivers remain a significant cause of system failures. In Windows XP, for example, drivers account for 85% of recently reported failures. This paper describes ...

Keywords: I/O, device drivers, protection, recovery, virtual memory

19 [Visualization of large terrains made easy](#)

Peter Lindstrom, Valerio Pascucci

October 2001 **VIS '01: Proceedings of the conference on Visualization '01**

Publisher: IEEE Computer Society

Full text available:



[pdf\(2.21 MB\)](#)



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We present an elegant and simple to implement framework for performing out-of-core visualization and view-dependent refinement of large terrain surfaces. Contrary to the recent trend of increasingly elaborate algorithms for large-scale terrain visualization, ...

20 [The holodeck ray cache: an interactive rendering system for global](#)




[illumination in nondiffuse environments](#)

Gregory Ward, Maryann Simmons

October 1999 **ACM Transactions on Graphics (TOG)**, Volume 18 Issue 4

Publisher: ACM

Full text available:  [pdf\(935.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#),
[cited by](#), [index terms](#)

We present a new method for rendering complex environments using interactive, progressive, view-independent, parallel ray tracing. A four-dimensional holodeck data structure serves as a rendering target and caching mechanism for interactive ...

Keywords: illumination, image reconstruction, mesh generation, ray tracing, rendering system, virtual reality

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